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(54) Title: BIOMARKERS FOR THE EFFICACY OF CALCITONIN AND PARATHYROID HORMONE TREATMENT

(57) Abstract: A multi-organ gene profiling analysis of the results of an administration to a subject of salmon calcitonin or a parathyroid hormone analogue provides biomarkers of calcitonin treatment efficacy and parathyroid hormone or parathyroid hormone analogue treatment efficacy. Among the biomarkers are the expression profiles of the genes for Y-box binding protein, BMPs, FGFs, IGFs, VEGF, α -2-HS glycoprotein (AHSG), OSF, nuclear receptors (steroid/thyroid family) and others. The results obtained support the anabolic effect of salmon calcitonin on bone metabolism.